

Amendments to the Claims:

Please amend Claims 40, 42, 49, 51 and 52. Please cancel Claims 58-64. All presently pending claims are reproduced below.

1-39. (Cancelled)

40. (Currently Amended) An ultrasonic blade that cuts for cutting at least one of a metal foil and a metal graphite composite material, comprising:

a blade body defined about a body-axis an axial line extending between a first side and a second side of the blade body;

a first surface being formed at a first angle relative to the axial line and having a first curve, the first surface extending continuously from the first side to the second side of the blade body;

a second surface being formed at a second angle relative to the axial line and having a second curve, the second surface extending continuously from the first side to the second side of the blade body; and

a cutting edge on the blade body defined by the intersection of the first surface and the second surface, the first and second curved surfaces in combination with the first and second angles generating the cutting edge, the cutting edge comprising a first straight portion connected to a second straight portion via a curved portion, the first and second straight portions are angled with respect to each other and with respect to the body-axis axial line, wherein a profile of the cutting edge is substantially smooth and substantially facet free.

41. (Previously Presented) The ultrasonic blade according to claim 40, wherein the cutting edge is a substantially continuous profile spanning a width of the blade body.

42. (Currently Amended) The ultrasonic blade according to claim 40, wherein the first straight portion and second straight portion are angled back towards the blade

body at about 30° relative to a line perpendicular from the body axis the axial line.

43. **(Previously Presented)** The ultrasonic blade according to claim 40, wherein the curved portion is defined by a radius of about 0.04 inches.

44. **(Previously Presented)** The ultrasonic blade according to claim 44, wherein the blade body is comprised of a metal.

45. **(Previously Presented)** The ultrasonic blade according to claim 44, wherein the blade body is comprised of a high speed steel.

46. **(Previously Presented)** The ultrasonic blade according to claim 44, wherein the blade body is comprised of a carbide steel.

47. **(Previously Presented)** The ultrasonic blade according to claim 40, wherein the first surface is curved about the first surface axis with a radius of about 0.171 inches.

48. **(Previously Presented)** The ultrasonic blade according to claim 40, wherein the second surface is curved about the second surface axis with a radius of about 0.171 inches.

49. **(Currently Amended)** An ultrasonic blade for cutting a titanium graphite composite prepreg, the ultrasonic blade comprising:

a blade body defined about a body axis an axial line extending between a first side and a second side of the blade body;

a first surface being formed at a first angle relative to the axial line and having a first curve, the first surface extending continuously from the first side to the second side of the blade body;

a second surface being formed at a second angle relative to the axial line and having a second curve, the second surface extending continuously from the first side to the second side of the blade body; and

a cutting edge on the blade body defined by the intersection of the first surface and the second surface, the first and second curved surfaces in combination with the first and second angles generating a cutting edge, the cutting edge comprising a first straight portion connected to a second straight portion via a curved portion, the first and second straight portions are angled with respect to each other and with respect to the body-axis axial line at a relatively distal point of the blade body, wherein the ultrasonic blade is configured to receive ultrasonic vibrational energy to cut the titanium graphite composite prepreg, and wherein a profile of the cutting edge is substantially smooth and substantially facet free.

50. **(Previously Presented)** The ultrasonic blade according to claim 49, wherein the cutting edge is a substantially continuous profile spanning a width of the blade body.
51. **(Currently Amended)** The ultrasonic blade according to claim 49, wherein the first straight portion and second straight portion are angled back towards the blade body at about 30° relative to a line perpendicular from the body-axis the axial line.
52. **(Currently Amended)** The ultrasonic blade according to claim 49, wherein the body-axis the axial line, first surface axis and second surface axis substantially converge at a point.
53. **(Previously Presented)** The ultrasonic blade according to claim 49, wherein the curved portion is defined by a radius of about 0.04 inches.
54. **(Previously Presented)** The ultrasonic blade according to claim 49, wherein the blade body is comprised of a metal.
55. **(Previously Presented)** The ultrasonic blade according to claim 54, wherein the blade body is comprised of a high speed steel.

Application Serial No.: 10/809,698
Docket No.: 02-1001 (formerly 05165.1460)
Office Action of September 26, 2008

56. (Previously Presented) The ultrasonic blade according to claim 54, wherein the blade body is comprised of a carbide steel.

57. (Previously Presented) The ultrasonic blade according to claim 49, wherein the first surface is curved about the first surface axis with a radius of about 0.171 inches and the second surface is curved about the second surface axis with a radius of about 0.171 inches.

58–64. (Cancelled)